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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,979	04/05/2004	Longzhi Jiang	GEMS 0219 PA	2978
27256 7590 02/09/2007 ARTZ & ARTZ, P.C. 28333 TELEGRAPH RD.			EXAMINER	
			VARGAS, DIXOMARA	
SUITE 250 SOUTHFIELD	MI 48034		ART UNIT	PAPER NUMBER
55 5 1211 1222, 1111 1000 V			2859	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		02/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)			
Office Action Summary		10/708,979	JIANG ET AL.			
		Examiner	Art Unit			
		Dixomara Vargas	2859			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS OF THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[]	Responsive to communication(s) filed on					
2a)□		 action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· · ·	(i) Claim(s) <u>1,6,7,10,11,15 and 16</u> is/are rejected.					
	Claim(s) <u>2-5,8,9,12-14 and 17-20</u> is/are objected					
	Claim(s) are subject to restriction and/or					
Applicati	on Papers					
-	The specification is objected to by the Examine	•				
	The drawing(s) filed on <u>05 April 2004</u> is/are: a)		by the Evaminer			
	Applicant may not request that any objection to the	• — •	- • · · · · · · · · · · · · · · · · · ·			
	Replacement drawing sheet(s) including the correcti					
11)	The oath or declaration is objected to by the Ex					
Priority u	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
,-	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau		3			
* S	ee the attached detailed Office action for a list of	* **	d.			
		•				
Attachment	• •					
	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa				
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldberg et al. (US 5,317,879 A).

With respect to claims 1, 10 and 16, Goldberg discloses a magnetic resonance imaging assembly comprising (Abstract; as seen on Figure 1): a outer thermal shield having an operational temperature (#20 and #21); and a cold head sleeve assembly comprising: a cold head sleeve (#10), a plurality of braid elements (copper ropes #17, #18, #33 and #34 braided) mounted to a cooler block (cooper station #12 in stage 1 of sleeve), said plurality of braid elements connecting said cold head sleeve to said cooler block (as seen on Figure 2 top view); a highly thermally conductive block (interfaces #23, #37, #38) mounted between said cooler block and said outer thermal shield (as seen on Figure 2), said highly thermally conductive block welded to said outer thermal shield and welded to said cooler block (Column 3, lines 21-40), said highly thermally conductive block having greater thermal conductivity than said outer thermal shield (Column 2, lines 56-62).

3. With respect to claims 6 and 11, Goldberg discloses a cooler block comprised of copper (Column 2, line 63).

Art Unit: 2859

4. With respect to claims 7 and 15, Goldberg discloses said operation temperature is less than 50 degrees Kelvin (Column 2, line 63).

Allowable Subject Matter

5. Claims 2-5, 8-9, 12-14 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/708,979

Art Unit: 2859

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dixomara Vargas Art Unit 2859

BRIJ SHRIVASTAV PRIMARY EXAMINER Page 4